

CLAIMS LISTING

1. (Original) A composition comprising the reaction product of:
an unsaturated vegetable oil that has been modified by the addition of an enophile or dienophile having an acid, ester or anhydride functionality; and
a functional vinyl monomer.
2. (Original) The composition of Claim 1 wherein the vegetable oil is selected from the group consisting of soybean oil, linseed oil and sunflower oil.
3. (Original) The composition of Claim 1 wherein the vegetable oil comprises soybean oil.
4. (Withdrawn) The composition of Claim 1 wherein the vegetable oil comprises linseed oil.
5. (Withdrawn) The composition of Claim 1 wherein the vegetable oil comprises sunflower oil.
6. (Original) The composition of Claim 1 wherein the enophile or dienophile is selected from the group consisting of maleic anhydride, fumaric acid, itaconic anhydride and maleate esters.
7. (Original) The composition of Claim 1 wherein the functional vinyl monomer is selected from the group consisting of hydroxy, amine, thiol and oxirane vinyl monomers.
8. (Original) The composition of Claim 1 wherein the vinyl monomer is selected from the group consisting of hydroxyethyl acrylate, hydroxyethyl methacrylate, allyl amine, 2-(tert-butylamino)ethyl methacrylate, glycidyl acrylate, glycidyl methacrylate, and hydroxybutyl vinyl ether.
9. (Withdrawn-Currently Amended) A process for forming a functionalized vegetable oil derivative composition of claim 1 comprising:

modifying a vegetable oil by the addition of an enophile or dienophile having an acid, ester or anhydride functionality; and
reacting the modified vegetable oil with a functionalized vinyl monomer to form the composition of claim 1.

10. (Withdrawn) The process of Claim 9 wherein the reaction of the vegetable oil with the enophile or dienophile is performed at a temperature of about 200 °C to about 240 °C.
11. (Withdrawn) The process of Claim 9 wherein the vegetable oil is selected from the group consisting of soybean oil, linseed oil and sunflower oil.
12. (Withdrawn) The process of Claim 9 wherein the functional vinyl monomer is selected from the group consisting of hydroxy ethyl acrylate, hydroxy ethyl methacrylate, allyl amine, 2-(tert-butylamino)ethyl methacrylate, glycidyl acrylate, glycidyl methacrylate, and hydroxybutyl vinyl ether.
13. (Withdrawn-Currently amended) A latex polymer comprising the polymerization product: an ethylenically unsaturated monomer suitable for forming a latex polymer; and the composition of claim 1 ~~reaction product of an unsaturated vegetable oil that has been modified by the addition of an enophile or dienophile having an acid, ester or anhydride functionality and a functional vinyl monomer.~~
- 14.-16. (Cancelled)
17. (Withdrawn) The latex of Claim 13 wherein the ethylenically unsaturated monomer is selected from the group consisting of vinyl acetate, vinyl chloride, vinyl ester of a saturated tertiary branched carboxylic acid, acrylonitrile, acrylamide, diacetone acrylamide, 2-ethylhexyl acrylate, 2-ethylhexyl methacrylate, 2-hydroxyethyl acrylate, 2-hydroxyethyl methacrylate, glycidyl acrylate, glycidyl methacrylate, acrylic acid,

methacrylic acid, butyl acrylate, butyl methacrylate, methyl methacrylate, methyl acrylate, para-acetoxystyrene, and styrene.

18. (Withdrawn-Currently amended) A coating composition comprising a blended mixture of:
a latex polymer of claim 13 ~~comprising the polymerization product of an ethylenically unsaturated monomer suitable for forming a latex polymer, and the reaction product of an unsaturated vegetable oil that has been modified by the addition of an enophile or dienophile having an acid, ester or anhydride functionality and a functional vinyl monomer;~~
a pigment; and
a surface-active agent.